

 P.A.U. RTE.	SECTION		COUNTY	TOTAL SMEETS	SHEET NO
1215	99-00169-05-	-WR	LAKE	153	67
JUNCTION CHAMBER DETAILS					
CONTRACT NO. 83847 IL		ILLINOIS	s	UNSET AVEN	NUE.

## JUNCTION CHAMBER NOTES:

- 1. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE.
- 2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- 3. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING
- 5. THE CONTRACTOR SHALL INSPECT THE SITE OF THE PROJECT AND FAMILIARIZE HIM/HERSELF WITH ALL EXISTING CONDITIONS, TRAFFIC AND OTHER ITEMS AND REQUIREMENTS THAT MAY AFFECT THE CONTRACT.
- 6. LATEST EDITIONS OF ALL ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) CODES, DESIGN MANUALS AND STANDARD SPECIFICATIONS SHALL BE USED.
- 7. POLLUTION CONTROL: THE CONTRACTOR IS REQUIRED TO COMPLY WITH THE LOCAL, STATE AND FEDERAL REGULATIONS REGARDING LAND, AIR, WATER AND NOISE POLLUTION.
- 8. ALL CONSTRUCTION PERSONNEL ARE REQUIRED TO WEAR WARNING CARMENTS THAT COMPLY WITH ALL RELEVANT OSHA REQUIREMENTS AND THE FEDERAL HIGHWAY ADMINISTRATION'S (FHWA'S) CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AT ALL TIMES WHILE ON THE CONSTRUCTION SITE, COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ANY ACCUMULATED DEBRIS WITHIN THE PROJECT, AS A RESULT OF THE IMPROVEMENT SHALL BE REMOVED AND DISPOSED OF SATISFACTORILY BY THE CONTRACTOR AS DIRECTED BY THE
- 10. THE CONTRACTOR'S ATTENTION IS CALLED TO THE SPECIAL PROVISION FOR COOPERATION WITH UTILITIES.

# B. REINFORCED CONCRETE 1. MATERIALS:

### A. CONCRETE:

CONCRETE SHALL CONFORM TO THE APPLICABLE PORTION OF SECTION 1020 OF THE IDOT STANDARD SPECIFICATIONS. EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

COARSE AGGREGATE IN THE CONCRETE SHALL MEET THE REQUIREMENTS AS SPECIFIED IN ARTICLE 1004.01 AND 1004.02 OF THE IDOT STANDARD

# B. REINFORCING BARS:

ALL REINFORCING BARS SHALL BE EPOXY COATED.
ALL DEFORMED REINFORCING BARS SHALL COMPLY WITH ASTM AG15, GRADE 60. EPOXY COATED REINFORCING STEEL SHALL COMPLY WITH ASTM A775, REINFORCING BARS MAY NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

- 2. SPLICES: UNLESS NOTED OTHERWISE, MINIMUM LAP SPLICE LENGTHS TO BE 60 BAR DIAMETERS.
- 3. CONCRETE COVER UNLESS NOTED OTHERWISE:
  A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3 IN.
  B. CONCRETE EXPOSED TO EARTH OR WEATHER = 2 IN.

### C. EARTHWORK:

- ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY A QUALIFIED REPRESENTATIVE OF THE OWNER PRIOR TO PLACING CONCRETE. EXCAVATIONS SHALL BE FREE OF WATER AT ALL TIMES. REPLACE SOFT OR WEAKENED SOIL WITH COMPACTED CA-6.
- 2. NO ENGINEERED FILL SHALL BE PLACED UNTIL EXCAVATION BOTTOMS HAVE BEEN INSPECTED AND APPROVED BY THE FIELD REPRESENTATIVE.
- A. NO FILL OR BACKFILL SHALL BE SETTLED BY THE USE OF WATER.
  B. BOTH SIDES OF THE FOUNDATION WALL SHALL BE BACKFILLED SIMULTANEOUSLY SO AS TO PREVENT OVERTURNING OR LATERAL MOVEMENT OF THE WALLS.

# D. DESIGN LOADS

1. JUNCTION CHAMBER:

LIVE LOAD:

DEAD LOAD:

EARTH:

120 PCF CONCRETE: 150 PCF

EQUIV. FLUID PRESSURE (FOR DEPTH OF FILL) EQUIV. FLUID PRESSURE (FOR HEIGHT OF JUNCTION CHAMBER)

> LakeCounty
> Division of Transportal SUNSET AVENUE JUNCTION CHAMBER DETAILS